

(12) **United States Patent**
Huene

(10) **Patent No.:** **US 9,409,288 B1**
(45) **Date of Patent:** **Aug. 9, 2016**

(54) **AWNING EXTENSION ADJUSTMENT
DEVICE**

(56) **References Cited**

U.S. PATENT DOCUMENTS

(71) Applicant: **David J. Huene**, Cumming, GA (US)

5,232,036 A 8/1993 Brutsaert
D345,288 S 3/1994 Hubal et al.

(72) Inventor: **David J. Huene**, Cumming, GA (US)

5,921,305 A 7/1999 Grudl
6,230,582 B1 5/2001 Becker et al.

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 379 days.

6,591,716 B2 * 7/2003 Wantz B28B 9/00
294/210

6,752,193 B1 6/2004 Molloy
6,782,936 B1 8/2004 Girard et al.

(21) Appl. No.: **14/163,132**

2009/0320651 A1 * 12/2009 Kramer B25B 13/04
81/176.2

(22) Filed: **Jan. 24, 2014**

* cited by examiner

Primary Examiner — David B Thomas

Related U.S. Application Data

(60) Provisional application No. 61/759,103, filed on Jan.
31, 2013.

(51) **Int. Cl.**
B25J 1/00 (2006.01)

(52) **U.S. Cl.**
CPC **B25J 1/00** (2013.01)

(58) **Field of Classification Search**
CPC B25J 1/00; B25J 1/04; B25B 13/48
USPC 160/66, 67, 310; 81/53.1, 176.1, 176.2;
294/86.4

See application file for complete search history.

(57) **ABSTRACT**

An awning extension adjustment device selectively loosens and tightens an adjustment knob of an awning extension assembly from an extended distance. The device includes a shaft and a hook coupled to the shaft extending from a first end of the shaft. An engagement member is coupled to a second end of the shaft. The engagement member has an outward face directed away from the shaft. Each of a plurality of protrusions extends from the outward face of the engagement member. The protrusions are arranged on the outward face of the engagement member wherein the protrusions engage an adjustment knob coupled to an extension arm of a frame of an extendable awning wherein rotation of the shaft and the engagement member rotates the adjustment knob.

15 Claims, 5 Drawing Sheets

